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 1 [BorderPatrol: isolating events for black-box tracing](#)
[Eric Koskinen, John Jannotti](#)

April Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European 2008 Conference on Computer Systems 2008

Publisher: ACM

 Full text available: [pdf](#) (300.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 91, Citation Count: 0

Causal request traces are valuable to developers of large concurrent and distributed applications, yet difficult to obtain. Traces show how a request is processed, and can be analyzed by tools to detect performance or correctness errors and anomalous ...

Keywords: black box systems, causal paths, distributed systems, performance analysis, performance debugging

Also published in:

 April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4

 2 [Storage workload estimation for database management systems](#)
[Oguzhan Ozmen, Kenneth Salem, Mustafa Uysal, M. Hossein Sheikh Altar](#)

June SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international 2007 conference on Management of data

Publisher: ACM

 Full text available: [pdf](#) (563.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 304, Citation Count: 0

Modern storage systems are sophisticated. Simple direct-attached storage devices are giving way to storage systems that are shared, flexible, virtualized and network-attached. Today, storage systems have their own administrators, who use specialized ...

Keywords: database management systems, storage configuration, storage management, workload characterization

3 [Replication degree customization for high availability](#)



[Ming Zhong, Kai Shen, Joel Seiferas](#)

April 2008 Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: Pdf (768.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 191, Citation Count: 0

Object replication is a common approach to enhance the availability of distributed data-intensive services and storage systems. Many such systems are known to have highly skewed object request probability distributions. In this paper, we propose an object ...

Keywords: optimization, replication, system availability

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4



4 [Optimal proactive caching in peer-to-peer network: analysis and application](#)

[Weixiong Rao, Lei Chen, Ada Wai-Chee Fu, Ying Yi Bu](#)

November 2007 CI KM '07: Proceedings of the sixteenth ACM conference on Conference on information and knowledge management

Publisher: ACM

Full text available: Pdf (1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 221, Citation Count: 0

As a promising new technology with the unique properties like high efficiency, scalability and fault tolerance, Peer-to-Peer (P2P) technology is used as the underlying network to build new Internet-scale applications. However, one of the well known issues ...


Keywords: peer-to-peer, placement strategy, web caching

5 [A utility-based unified disk scheduling framework for shared mixed-media services](#)

 [Akshat Verma](#), [Rohit Jain](#), [Sugata Ghosal](#)

February Transactions on Storage (TOS) , Volume 3 Issue 4 2008

Publisher: ACM

Full text available:  Pdf (2.18 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 162, Citation Count: 0

We present a new disk scheduling framework to address the needs of a shared multimedia service that provides differentiated multilevel quality-of-service for mixed-media workloads. In such a shared service, requests from different users have different ...


Keywords: GSP, Profit maximization, disk scheduling, shortest path

6 [Color sketch generation](#)

 [Fang Wen](#), [Qing Luan](#), [Lin Liang](#), [Ying-Qing Xu](#), [Heung-Yeung Shum](#)

June NPAR '06: Proceedings of the 4th international symposium on Non-2006 photorealistic animation and rendering

Publisher: ACM

Full text available:  Pdf (946.83 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 162, Citation Count: 2

In this paper, we introduce an NPR system to generate color sketches in a free-hand drawing style. From observation, we found out that in a free-hand style both shape and color of image regions are stylized, which contributes cooperatively to the visual ...


Keywords: boundary shrinking, color shift, non-photorealistic rendering

7 [Memory coherence activity prediction in commercial workloads](#)

 [Stephen Somogyi](#), [Thomas F. Wenisch](#), [Nikolaos Hardavellas](#), [Jangwoo Kim](#), [Anastassia Ailamaki](#), [Babak Falsafi](#)

June WPMI '04: Proceedings of the 3rd workshop on Memory performance 2004 issues: in conjunction with the 31st international symposium on computer architecture

Publisher: ACM

Full text available:  Pdf (434.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 2

Recent research indicates that prediction-based coherence optimizations offer substantial performance improvements for scientific applications in distributed shared memory multiprocessors. Important commercial applications also show sensitivity to coherence ...

Keywords: coherence misses, coherence prediction, commercial workloads, sharing patterns, trace-based prediction

8 [Exposing disk layout to compiler for reducing energy consumption of parallel disk based systems](#)



S. W. Son, G. Chen, M. Kandemir, A. Choudhary

June PPOPP '05: Proceedings of the tenth ACM SIGPLAN symposium on
2005 Principles and practice of parallel programming

Publisher: ACM

Full text available: Pdf (668.20
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 38, Citation Count: 2

Disk subsystem is known to be a major contributor to overall power consumption of high-end parallel systems. Past research proposed several architectural level techniques to reduce disk power by taking advantage of idle periods experienced by disks. ...

Keywords: low power, optimizing compiler, parallel disk

9 [Inferring Internet denial-of-service activity](#)



David Moore, Colleen Shannon, Douglas J. Brown, Geoffrey M. Voelker, Stefan Savage

May Transactions on Computer Systems (TOCS) , Volume 24 Issue 2
2006

Publisher: ACM

Full text available: Pdf (790.20
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 464, Citation Count: 9

In this article, we seek to address a simple question: "How prevalent are denial-of-service attacks in the Internet?" Our motivation is to quantitatively understand the nature of the current threat as well as to enable longer-term analyses ...

Keywords: Backscatter, denial-of-service, network measurement, network security

10 [Proof-infused streams: enabling authentication of sliding window queries on streams](#)

Feifei Li, Ke Yi, Marios Hadjieleftheriou, George Kollios

September VLDB '07: Proceedings of the 33rd international conference on Very
2007 large data bases

Publisher: VLDB Endowment

Full text available: Pdf (344.12
KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 63, Citation Count: 0

As computer systems are essential components of many critical commercial services, the need for secure online transactions is now becoming evident. The demand for such applications, as the market grows, exceeds the capacity of individual businesses to ...

11 [The windows of private DNS updates](#)



[Andre Broido](#), [Young Hyun](#), [Marina Fomenkov](#), [kc claffy](#)

July 2006 SIGCOMM Computer Communication Review , Volume 36 Issue 3

Publisher: ACM

Full text available: [PDF](#) (299.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 53, Citation Count: 0

This work is motivated by the observation of one particular type of unwanted traffic -- dynamic DNS updates for private (RFC1918) addresses, which leaks to global network. This spurious traffic not only wastes network resources but also jeopardizes security ...

Keywords: OS fingerprinting, domain name system, dynamic updates, misconfiguration, private addresses

12 [Providing resiliency to load variations in distributed stream processing](#)

[Ying Xing](#), [Jeong-Hyon Hwang](#), [U-ur Cetintemel](#), [Stan Zdonik](#)

September 2006 VLDB '06: Proceedings of the 32nd international conference on Very large data bases

Publisher: VLDB Endowment

Full text available: [PDF](#) (1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 35, Citation Count: 0

Scalability in stream processing systems can be achieved by using a cluster of computing devices. The processing burden can, thus, be distributed among the nodes by partitioning the query graph. The specific operator placement plan can have a huge impact ...

13 [Practical methods for constructing suffix trees](#)

[Yuanyuan Tian](#), [Sandeep Tata](#), [Richard A. Hankins](#), [Jignesh M. Patel](#)

September 2005 The VLDB Journal — The International Journal on Very Large Data Bases , Volume 14 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: [PDF](#) (1.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 138, Citation Count: 2

Sequence datasets are ubiquitous in modern life-science applications, and querying sequences is a common and critical operation in many of these applications. The suffix tree is a versatile data structure that can be used to evaluate a wide variety of ...

Keywords: Suffix tree construction, sequence matching

14 [Finding frequent items in probabilistic data](#)



[Qin Zhang](#), [Feifei Li](#), [Ke Yi](#)

June SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (372.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 205, Citation Count: 0

Computing statistical information on probabilistic data has attracted a lot of attention recently, as the data generated from a wide range of data sources are inherently fuzzy or uncertain. In this paper, we study an important statistical query on probabilistic ...

Keywords: heavy hitters, probabilistic data, uncertain databases, x-relation model

15 [Hardware counter driven on-the-fly request signatures](#)



[Kai Shen](#), [Ming Zhong](#), [Sandhya Dwarkadas](#), [Chuanpeng Li](#), [Christopher Stewart](#), [Xiao Zhang](#)

March ASPLOS XIII: Proceedings of the 13th international conference on 2008 Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: Pdf (437.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 221, Citation Count: 0

Today's processors provide a rich source of statistical information on application execution through hardware counters. In this paper, we explore the utilization of these statistics as request signatures in server applications for identifying requests ...

Keywords: anomaly detection, hardware counter, operating system adaptation, request classification, server system

16 [Boosting trace cache performance with nonhead miss speculation](#)



[Stevan Vlastovic](#), [Edward S. Davidson](#)

June ICS '02: Proceedings of the 16th international conference on 2002 Supercomputing

Publisher: ACM

Full text available: Pdf (179.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 10, Citation Count: 0

Trace caches are used to help dynamic branch prediction make multiple predictions in a cycle by embedding some of the predictions in the trace. In this work, we evaluate a trace cache that is capable of delivering a trace consisting of a variable number ...

Keywords: branch prediction, optimization, trace cache, x86

17 [GPGPU: general purpose computation on graphics hardware](#)



[David Luebke](#), [Mark Harris](#), [Jens Krüger](#), [Tim Purcell](#), [Naga Govindaraju](#), [Ian Buck](#), [Cliff Woolley](#), [Aaron Lefohn](#)

August SIGGRAPH '04: SIGGRAPH 2004 Course Notes
2004

Publisher: ACM

Full text available: Pdf (63.03 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1483, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

18 [A high-level programming environment for packet trace anonymization and transformation](#)



[Ruoming Pang](#), [Vern Paxson](#)

August SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
2003

Publisher: ACM

Full text available: Pdf (251.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 72, Citation Count: 18

Packet traces of operational Internet traffic are invaluable to network research, but public sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet ...

Keywords: anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

19 [Wide and efficient trace prediction using the local trace predictor](#)



[Juan C. Moura](#), [Domingo Benítez](#), [Dolores I. Rexachs](#), [Emilio Luque](#)

June ICS '06: Proceedings of the 20th annual international conference on 2006 Supercomputing

Publisher: ACM

Full text available: Pdf (535.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 43, Citation Count: 0

High prediction bandwidth enables performance improvements and power reduction techniques. This paper explores a mechanism to increase prediction width (instructions per prediction) by predicting instruction traces. Our analysis shows that predicting ...

Keywords: branch prediction, high bandwidth fetch mechanism

20 [Measurement, modeling, and analysis of a peer-to-peer file-sharing workload](#)



[Krishna P. Gummadi](#), [Richard J. Dunn](#), [Stefan Saroiu](#), [Steven D. Gribble](#), [Henry M. Levy](#), [John Zahorjan](#)

December 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on
Operating systems principles

Publisher: ACM

Full text available: [pdf](#) (751.77
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 470, Citation Count: 71

Peer-to-peer (P2P) file sharing accounts for an astonishing volume of current Internet traffic. This paper probes deeply into modern P2P file sharing systems and the forces that drive them. By doing so, we seek to increase our understanding of P2P file ...

Keywords: Zipf's law, measurement, modeling, multimedia workloads, peer-to-peer

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

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